

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P283870

Luminaire Tested: **LDA2B059730D010 EU2B05WFL559730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B059730D010 EU2B05WFL559730 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 537.8 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

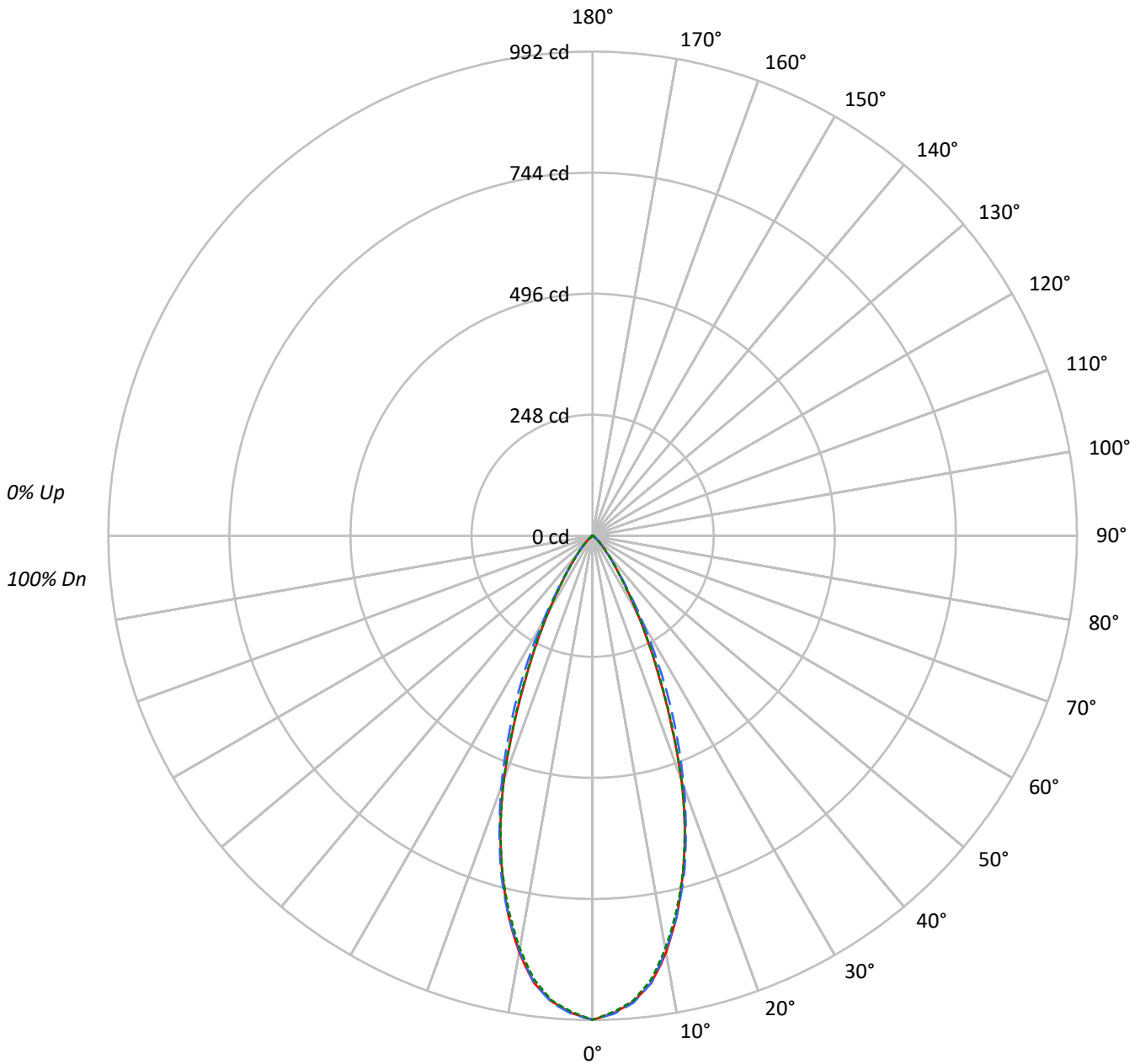
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	489168	489168	489168
5°	474446	475635	473456
10°	434293	432590	429985
15°	365300	368722	364738
20°	279366	286768	278893
25°	177408	200000	180838
30°	103170	116501	104993
35°	54567	58000	54687
40°	28789	30077	28789
45°	16117	16675	16327
50°	7522	9517	7522
55°	2752	5247	3011
60°	3158	3158	3158
65°	3385	3736	3385
70°	4183	3750	4183
75°	3812	3812	3812
80°	3978	3409	3978
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	16.5
10°-20°	197.1	36.6
20°-30°	159.2	29.6
30°-40°	62.9	11.7
40°-50°	19.3	3.6
50°-60°	5.0	0.9
60°-70°	3.0	0.6
70°-80°	2.2	0.4
80°-90°	0.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	444.7	82.7
0°-40°	507.6	94.4
0°-60°	531.9	98.9
0°-90°	537.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	958	960	960	958	956	89
15°	715	717	722	719	714	196
25°	326	342	367	348	332	152
35°	91	93	96	93	91	61
45°	23	23	24	24	23	19
55°	3	4	6	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.5	991.5	991.5	991.5	991.5
2.5°	979.1	979.7	980.5	979.4	976.5
5°	958.0	959.8	960.4	958.3	956.0
7.5°	923.4	921.4	923.1	919.7	916.8
10°	866.9	864.3	863.5	858.3	858.3
12.5°	797.1	796.3	796.8	794.2	790.2
15°	715.2	717.2	721.9	719.0	714.1
17.5°	628.4	631.3	635.3	634.5	627.8
20°	532.1	540.5	546.2	540.7	531.2
22.5°	422.5	440.4	455.1	443.6	428.0
25°	325.9	341.5	367.4	347.8	332.2
27.5°	247.2	258.4	282.0	262.7	252.1
30°	181.1	188.0	204.5	191.8	184.3
32.5°	129.5	134.4	141.3	133.8	130.1
35°	90.6	93.2	96.3	93.4	90.8
37.5°	63.7	64.6	66.9	64.6	63.4
40°	44.7	45.0	46.7	45.3	44.7
42.5°	32.3	32.3	33.2	32.6	32.3
45°	23.1	23.4	23.9	23.6	23.4
47.5°	16.4	17.0	17.0	17.3	16.2
50°	9.8	12.1	12.4	12.1	9.8
52.5°	5.2	7.2	8.9	7.2	5.2
55°	3.2	4.3	6.1	4.3	3.5
57.5°	3.2	3.2	4.0	3.5	3.2
60°	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.9	3.2	3.2	3.2	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.6	2.9	2.9
72.5°	2.6	2.6	2.3	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.2	1.4	1.4
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)